Work Order ID 84103

May-30-12 3:56:32 PM

Item ID: D407-667-205TRN

**Revision ID:** 

Item Name: Crosstube Turning Detail

**Start Date: Required Date:** 17/05/2012

03/05/2012

Start Oty: 1.00

Reg'd Oty: 1.00

Juplicate

\*N900040100\*

Setup Start

Page 1

**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

Process Plan: MLJ

Date: 12 05 3 Date:

Tooling: SPC (Y/N):

Accept

Date: Date: Run

Stop

Sequence ID/ Work Center ID **Operation** Description

**Revision Nbr** 

Set Up/ **Run Hours** 

Tool ID

Tool# Plan

Code

Accept Qty

Reject Qty

Reject Insp.

Number Stamp

angril 12/06/27

**Draw Nbr** D407-667-245

Rev F

100 \*100\*

MORI SEIKI CNC LATHE LARGE

Mori Seiki

Mori Seiki CNC Lathe Large

Memo

0.00

0.00

1-Fill tube with sand & install plugs DT8531 on both ends as per Folio FA248

2-Turn first side as per Folio FA248

3-Blend transition lines only, \*\*do not sand whole tube\*\*:

\*Use mill bastard file, brush file repeatedly with file card.

\*Do not use sandpaper coarser than 320 grit.

110

QC1- Inspect dimensions to dimension sheet

0.00

\*110\*

Quality Control

QC

Memo

0.00

900/27

|         | Copaco        |                   |              |                |                     |              | 5     | 1                             | **                       |
|---------|---------------|-------------------|--------------|----------------|---------------------|--------------|-------|-------------------------------|--------------------------|
| W/O:    |               |                   | WO           | RK ORDER CHANG | ES                  |              |       |                               |                          |
| DATE    | STEP          | PRO               | OCEDURE CHAN | IGE            | Ву                  | Date         | Qty   | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |
|         |               |                   |              |                |                     |              |       |                               |                          |
|         |               |                   |              |                |                     |              |       |                               |                          |
|         |               |                   |              |                |                     |              |       |                               |                          |
|         |               |                   |              |                |                     |              |       |                               |                          |
| Part No | :             | PAR #:            | Fault Categ  | ory:           | _ NCR: Yes          | No <b>DQ</b> | A:    | Date: _                       |                          |
|         |               | esolution:        |              |                |                     |              |       |                               |                          |
| NCR:    |               |                   | WORK ORDE    | R NON-CONFORM  | ANCE (NCF           | R)           |       | ·                             |                          |
| D.4.T.F |               | Description of NC |              |                | ion B               | Verific      | ation | Approval                      | Approval                 |
| DATE    | STEP          | Section A         |              |                | scription Sign Date |              | on C  | Chief Eng                     | QC inspector             |
|         |               |                   |              |                |                     |              |       |                               |                          |
|         | <u>.</u><br>! |                   |              |                |                     |              |       |                               |                          |
|         |               |                   |              |                |                     |              |       |                               |                          |
|         |               |                   |              |                |                     |              |       |                               |                          |
|         |               |                   |              |                |                     |              |       |                               |                          |
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|         |               |                   | i<br>i       |                | :                   |              |       |                               | r                        |
|         |               |                   |              |                |                     |              |       |                               |                          |

1 \$ Kc 12.678

0.00

0.00

130

QC

Quality Control

QC1- Inspect dimensions to dimension sheet

Memo

| W/O:         |      | WORK ORDER CHANGES |    |      |     |                               |                          |  |  |  |  |  |
|--------------|------|--------------------|----|------|-----|-------------------------------|--------------------------|--|--|--|--|--|
| DATE         | STÉP | PROCEDURE CHANGE   | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |  |  |  |  |  |
| 18.7         |      |                    |    |      |     | ,                             |                          |  |  |  |  |  |
|              |      | •                  |    |      |     |                               |                          |  |  |  |  |  |
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| · <u>·</u> · |      |                    |    |      |     |                               |                          |  |  |  |  |  |

| Part No:    | PAR #: Fault Category: | NCR: Yes No DQA: | Date: |
|-------------|------------------------|------------------|-------|
| Resolution: | Disposition:           | QA: N/C Closed:  | Date: |

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |  |  |                |              |           |              |  |  |  |  |
|------|------|----------------------------------|--|--|----------------|--------------|-----------|--------------|--|--|--|--|
|      |      | Description of NC                |  | Corrective Action Section B  |                | Verification | Approval  | Approval     |  |  |  |  |
| DATE | STEP | Section A                        | Initial Action Description Chief Eng Chief Eng |  | Sign &<br>Date | Section C    | Chief Eng | QC Inspector |  |  |  |  |
|      |      |                                  |  |  |                |              |           | :            |  |  |  |  |
|      |      |                                  |  |  |                |              |           | s.           |  |  |  |  |
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| Work | Orde | r ID | 84103 | į |
|------|------|------|-------|---|
|------|------|------|-------|---|

Page 3

Insp.

May-30-12 3:56:32 PM Item ID: D407-667-205TRN Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Crosstube Turning Detail **Start Date:** 03/05/2012 Start Qty: 1.00 **Cust Item ID: Required Date:** 17/05/2012 Reg'd Oty: 1.00 **Customer:** Reference: Run Process Plan: Approvals: Date: **Tooling:** Date: Stop SPC (Y/N): Date: \_\_\_\_ Date: Sequence ID/ Operation Set Up/ Tool ID Tool# Plan Accept Reject Reject Work Center ID Description Qty **Run Hours** Code Qty Number Stamp 140 QC8- Inspect parts - second check 0.00 \*140\* 0.00 Memo 12-7-4 Quality Control 145 0.00 Km 12-7-9 \*145\* Crosstubes 0.00 Memo Crosstubes Grind off circumferential machining marks longitudinally. 150 Crosstubes Chemical Conversion 0.00 \*150\* HandFXtube 0.00 Hand Finishing Crosstubes Ensure no sand is in the tube before alodine. n sad oth pressure with

| W/O:    |      |            |        | WORK ORDE       | RCHANGES |        |         |            |                               |                          |
|---------|------|------------|--------|-----------------|----------|--------|---------|------------|-------------------------------|--------------------------|
| DATE    | STEP |            | PRO    | OCEDURE CHANGE  | :        | Ву     | Date    | Qty        | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |
|         |      |            |        |                 |          |        |         |            | <u>.</u>                      |                          |
|         |      |            |        |                 | •        |        |         |            |                               |                          |
|         |      |            |        |                 |          |        |         |            |                               |                          |
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|         |      |            |        |                 |          |        |         |            |                               |                          |
|         |      |            |        |                 |          |        |         |            |                               |                          |
| Part No | ):   |            | PAR #: | Fault Category: | NC       | R: Yes | No DQ   | <b>A</b> : | _ Date: _                     |                          |
| •       | R    | esolution: |        | Disposition:    | QA       | : N/C  | Closed: |            | Date: _                       |                          |

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR)      |                      |                               |              |           |              |     |  |  |  |  |
|------|------|---------------------------------------|----------------------|-------------------------------|--------------|-----------|--------------|-----|--|--|--|--|
|      |      | Description of NC                     |                      | Corrective Action Section B   | Verification | Approval  | Approval     |     |  |  |  |  |
| DATE | STEP | Section A                             | Initial<br>Chief Eng | Action Description  Chief Eng | Section C    | Chief Eng | QC Inspector |     |  |  |  |  |
|      |      |                                       |                      |                               |              |           |              | • * |  |  |  |  |
|      |      |                                       |                      |                               |              |           |              |     |  |  |  |  |
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| 1    |      | r 1<br>3                              |                      |                               |              |           |              | ·   |  |  |  |  |
|      |      |                                       | ·                    |                               |              |           |              |     |  |  |  |  |
|      |      |                                       |                      |                               | -            |           |              | ţ   |  |  |  |  |
|      | 1, 1 |                                       |                      |                               |              | i.        |              |     |  |  |  |  |
|      |      |                                       |                      |                               |              |           |              |     |  |  |  |  |

Page 4

May-30-12 3:56:32 PM Item ID: D407-667-205TRN Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Crosstube Turning Detail \*1\* **Start Date:** 03/05/2012 Start Qty: 1.00 **Cust Item ID: Required Date: 17/05/2012** Rea'd Otv: 1.00 **Customer:** Reference: Run Process Plan: Approvals: Date: Tooling: Date: SPC (Y/N): Date: Date: Operation Sequence ID/ Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Oty Qty Number Stamp 160 QC Inspect Chemical Conversion Coat 0.00 \*160\* 0.00 Memo **Ouality Control** 170 0.00 Packaging \*170\* Packaging Memo Packaging Identify and stock in kanban rackLocation: MLJ 12/07/13 MLJ 12/07/13 180 QC21- Final Inspection - Work Order Release 0.00 \*120\* OC 0.00 Memo Quality Control

| Dart | Aer    | OS     | pace | . L | td |
|------|--------|--------|------|-----|----|
| _ ~  | $\sim$ | $\sim$ |      |     |    |

| W/O:        |      |        | WORK ORDER CHANGES |                       |       |     |                                     |                          |  |
|-------------|------|--------|--------------------|-----------------------|-------|-----|-------------------------------------|--------------------------|--|
| DATE        | STEP | PR     | OCEDURE CHANGE     | Ву                    | Date  | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |  |
|             |      | '      |                    |                       |       |     |                                     |                          |  |
|             |      |        |                    |                       |       |     |                                     |                          |  |
|             |      |        |                    |                       |       |     |                                     |                          |  |
|             |      |        |                    |                       |       |     |                                     |                          |  |
| Part No     | );   | PAR #: | Fault Category:    | NCR: Yes              | No DQ | A:  | Date: _                             | 1                        |  |
| Resolution: |      | ution: | Disposition:       | QA: N/C Closed: Date: |       |     | Date: _                             |                          |  |

| NCR: |      | •                 | WORK ORDER NON-CONFORMANCE (NCR)               |                             |   |              |                       |                          |  |  |  |  |
|------|------|-------------------|--|-----------------------------|---|--------------|-----------------------|--------------------------|--|--|--|--|
|      |      | Description of NC |  | Corrective Action Section B | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Verification | A                     |                          |  |  |  |  |
| DATE | STEP | Section A         | Initial Action Description Chief Eng Chief Eng |                             |   | Section C    | Approval<br>Chief Eng | Approval<br>QC Inspector |  |  |  |  |
|      |      |                   |  |                             |   |              |                       |                          |  |  |  |  |
|      |      |                   |  |                             |   |              |                       |                          |  |  |  |  |
|      |      |                   |  |                             |   |              |                       |                          |  |  |  |  |
|      |      |                   |  |                             |   |              |                       |                          |  |  |  |  |
|      |      |                   |  |                             |   |              |                       |                          |  |  |  |  |
|      |      |                   |  |                             |   |              |                       |                          |  |  |  |  |
|      |      |                   |  |                             |   |              |                       |                          |  |  |  |  |
| 18   |      |                   |  |                             |   |              |                       | τ                        |  |  |  |  |
|      |      |                   |  |                             |   |              |                       |                          |  |  |  |  |

## **Picklist Print**

May-30-12 3:56:35 PM

Work Order ID: 84103

\*84103\*

Parent Item:

D407-667-205TRN

\*D407-667-205TRN\*

Parent Item Name: Crosstube Turning Detail

**Start Date:** 03/05/2012

**Required Date:** 17/05/2012

Start Qty: 1.00

Required Qty: 1.00

**Comments:** 

IPP Rev:A 08-03-06 new issue DD verified by:ec IPP Rev B 08:04.02 Removed polish EC verified by: DD IPP Rev:C 08-08-19 revE as per dwg DD verified by:EC

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| D6011-115                       |                        | Manufactured  | No          | ·                   |                  | 120             | Each               | 45.0000        | 1           | 1            |               |                |        |
| *D6011_11                       | 5*                     |               |             |                     |                  |                 |                    |                | **          |              |               |                |        |

\*D6011-115\*

Crosstube Material

| Location | Loc Qty | Loc Code |   |   |        |           |
|----------|---------|----------|---|---|--------|-----------|
| FG       | 26      |          |   |   |        |           |
| 69802    | 26      |          |   |   | anan.l | 12 lock   |
| LG       | 19      |          | : |   |        | 110/06/26 |
| 65180    | 1       |          |   |   |        |           |
| 67798    | 18      |          |   | - |        |           |

| Dart Ae    | rospac | e Ltd             |                                  |                              |                |                                       |                                       |                                     | <b>\$</b>                |  |  |
|------------|--------|-------------------|----------------------------------|------------------------------|----------------|---------------------------------------|---------------------------------------|-------------------------------------|--------------------------|--|--|
| W/O:       |        |                   | WO                               | RK ORDER CHANGES             | <b>,</b>       |                                       | · · · · · · · · · · · · · · · · · · · |                                     |                          |  |  |
| Part No: _ | STEP   |                   | CEDURE CHAI                      | NGE                          | Ву             | Date                                  | Qty                                   | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     | :                        |  |  |
|            |        |                   |                                  | 4                            |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  |                              |                | •                                     |                                       |                                     |                          |  |  |
| Part No:   |        | PAR #:            | Fault Categ                      | jory: i                      | NCR: Yes       | No <b>DQ</b>                          | <b>A</b> :                            | Date: _                             |                          |  |  |
|            |        | Resolution:       |                                  |                              |                |                                       | Approval<br>QC Inspector              |                                     |                          |  |  |
| NCR:       |        | V                 | WORK ORDER NON-CONFORMANCE (NCR) |                              |                |                                       |                                       |                                     |                          |  |  |
|            |        | Description of NC |                                  | Corrective Action Section E  | 3              | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |                                       |                                     |                          |  |  |
|            | STEP   | Section A         | Initial<br>Chief Eng             | Action Description Chief Eng | Sign &<br>Date |                                       | on C                                  | Approval<br>Chief Eng               |                          |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  | ·                            |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     |                          |  |  |
|            |        |                   |                                  |                              |                |                                       |                                       |                                     | t                        |  |  |

| DART AEROSPACE LTD                  | Work Order:  | 84103        |
|-------------------------------------|--------------|--------------|
| Description: Crosstube Assembly     | Part Number: | D407-667-245 |
| Inspection Dwg: D407-667-245 Rev: F |              | Page 1 of 1  |

# FIRST ARTICLE INSPECTION CHECKLIST

| X | First Article | Prototype |  |
|---|---------------|-----------|--|
|---|---------------|-----------|--|

|          | spection Sheet  | Tolerance     | Actual    | Accept | Reject  | Method of  | Comments |
|----------|-----------------|---------------|-----------|--------|---------|------------|----------|
| Dr       | awing Dimension |               | Dimension | лосоро | 110,000 | Inspection | Comments |
|          | 2.490           | +0.005/-0.000 | 2.494     |        |         | VERN       | Carc-08  |
|          | 1.832           | +0.005/-0.000 | 1.835     |        |         |            |          |
|          | 1.838           | +0.005/-0.000 | 1.842     |        |         | ,          |          |
|          | 1.892           | +0.005/-0.000 | 1.897     |        |         |            |          |
|          | 2.052           | +0.005/-0.000 | 2.056     |        |         |            |          |
|          | 2.206           | +0.005/-0.000 | 2.211     |        |         |            |          |
| EA       | 2.521           | +0.005/-0.000 | 2.525     |        |         |            |          |
| SIDE     | 2.633           | +0.005/-0.000 | 2.637     |        |         |            |          |
|          | 4.10            | +/-0.030      | 210       |        |         |            |          |
|          | 4.978           | +/-0.030      | 4.978     |        |         |            |          |
|          | 2.040           | +0.000/-0.010 | 2.032     |        |         |            | ,        |
|          | 0.125           | +/-0.010      | .125      |        |         | <b>V</b>   |          |
|          | R0.063          | +/-0.010      | -063      |        |         | RG         |          |
|          | R0.500          | +/-0.010      | .500      |        |         | R6         | _        |
|          | 2.490           | +0.005/-0.000 | 2.494     | /      |         | Veen       | CNC-08   |
| ļ        | 1.832           | +0.005/-0.000 | 1.836     |        |         |            |          |
|          | 1.838           | +0.005/-0.000 | 1.843     | 7,     |         |            |          |
| }        | 1.892           | +0.005/-0.000 | 1.895     |        |         |            |          |
|          | 2.052           | +0.005/-0.000 | 2.056     |        |         |            |          |
|          | 2.206           | +0.005/-0.000 | 2.211     |        |         |            |          |
| <b>B</b> | 2.521           | +0.005/-0.000 | 2.525     |        |         |            |          |
| SIDE     | 2.633           | +0.005/-0.000 | 2-636     |        |         |            |          |
| S        | 4.10            | +/-0.030      | M.16      |        |         |            |          |
|          | 4.978           | +/-0.030      | 4.978     |        |         |            |          |
|          | 2.040           | +0.000/-0.010 | 2.032     |        |         | 7          | 7        |
|          | 0.125           | +/-0.010      | .125      |        |         | VERN       |          |
|          | R0.063          | +/-0.010      | -063      |        |         | V.         |          |
|          | R0.500          | +/-0.010      |           |        |         | 1252       |          |
|          | 112.91          | +/-0.020      | 1/2.91    | X      |         | Fape       | 16-25    |

| Measured by: mgn-l K | Audited by:  | Prototype Approval: N/A |
|----------------------|--------------|-------------------------|
| Date: 12/06/26       | Date: 12-7-4 | Date: N/A               |

| Rev | Date     | Change                                | Revised by  | Approved  |
|-----|----------|---------------------------------------|-------------|-----------|
| Α   | 04.04.21 | New Issue (P/O D407-667-205)          | KJ/RF       |           |
| В   | 06.03.09 | Dwg Rev updated                       | KJ/JLM      | · · · · · |
| С   | 06.03.30 | Tolerance revised for 4.978 dimension | KJ/JLM      |           |
| D   | 07.02.19 | Dwg Rev updated                       | KJ/JLM ,    |           |
| E   | 09.05.20 | Dwg Rev updated                       | KJ DA       | l XX      |
|     |          |                                       | <del></del> | 147       |

| W/O:     |      |   | 10/  | ODK ODDED OUANOE |          |         | <del></del> |                         |                          |
|----------|------|---|--|------------------|----------|---------|-------------|-------------------------|--------------------------|
|          |      |   | WORK ORDER CHANGES  Approval                           |                  |          |         |             |                         | <del></del> -            |
| DATE     | STEP | PRO   | CEDURE CHA   | NGE              | Ву       | Date    | Qty         | Chief Eng /<br>Prod Mgr | Approval<br>QC inspector |
|          |      |   |  |                  |          |         |             | Prod Mgr                |                          |
|          |      |   |  |                  |          |         |             |                         |                          |
|          |      |   |  |                  |          |         |             |                         |                          |
|          |      |   |  |                  | ·        |         |             |                         |                          |
| -        |      |   |  |                  |          |         |             |                         |                          |
|          |      |   |  |                  |          |         |             |                         |                          |
|          |      |   |  |                  |          |         |             |                         |                          |
| Part No: |      | PAR #:  | Fault Cate   | gory:            | NCR: Yes | No DQ   | <b>A</b> :  | _ Date: _               |                          |
|          |      |   |  |                  |          |         |             |                         |                          |
| NCR:     |      |   |  |                  |          |         |             |                         |                          |
|          | 1    |   |  |                  | •        | · · · / |             |                         |                          |
| DATE     | STEP | PAR #: Fault Category:  Resolution: Disposition:  WORK ORDER N  Description of NC Corre | Corrective Action Section B Initial Action Description |                  |          | Verific |             | Approval                | Approval                 |
|          |      |   | Chief Eng  | Sign<br>Date     |          | on C    | Chief Eng   | QC Inspector            |                          |
|          |      |   |  |                  |          |         |             | ·                       |                          |
|          |      |   |  |                  |          |         |             |                         |                          |
|          | 1    |   |  |                  |          |         |             |                         |                          |
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|          |      | ·   |  |                  |          |         |             |                         |                          |
|          |      |   |  |                  | ļ        |         |             |                         |                          |
|          |      |   |  |                  |          |         |             |                         |                          |
|          |      |   |  |                  |          |         |             |                         |                          |
|          |      |   |  |                  |          |         |             |                         |                          |
|          |      |   |  |                  | •        |         |             |                         | t                        |
|          |      |   |  |                  |          |         |             | i                       |                          |
|          | 1    |   | į l  |                  |          | 1       |             |                         |                          |

| l te m   | QTY<br>-245 | PART NUMBER    | DESCRIPTION  |
|----------|-------------|----------------|--|
| $\vdash$ |             | 1700 HOUDER    | DESCRIPTION .  |
| 1        | х           | D407-667-245   | CROSSTUBE ASSEMBLY (407 HIGH AFT)  |
|          |             |                |  |
| 2        | 1           | D6011-115      | CROSSTUBE  |
| 3        | 2           | D2856-400-773  | ABRASION STRIP   |
| 4        | 2           | D2873-043      | NUT PLATE  |
| 5        | 2           | D2873-045      | NUT PLATE  |
| 6        | 1           | D2894-1        | SUPPORT  |
| 7        | 2           | D3190-1        | CHAFING SHIELD   |
| 8        | 2           | D3595-063-430  | RUBBER CUSHION   |
| 9        | 14          | MS20601AD4W8   | RIVET (OR NAS9302B-4-8)  |
| 10       | 4           | MS21920-22     | CLAMP  |
| 11       | 2           | MS21920-25     | CLAMP (OR MS21920-24)  |
| $\vdash$ |             |                |  |
| 12       | A/R         | MAGNOBOND 6398 | ROCKWELL SPECIFICATION RBO-120-023<br>ADHESIVE (TEXTRON/BELL SPEC: 299-947-<br>100, TYPE II, CLASS 2 ADHESIVE) |

### **GENERAL NOTES:**

D

В

- 1) MATERIAL: MANUFACTURED FROM D6011-115
- FINISHED LENGTH = 112.91±0.020 CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
- PAINT OUTSIDE PER DART QSI 005 4.2
  3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D407-667-245" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: 27.7 lbs
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN-OFF PART. BLEND OUT EDGE LONGITUDINALLY, TRANSITION SHOULD BE SMOOTH. 10) BEND PROGRESSIVELY WITH A MINIMUM OF 6 PASSES. MAXIMUM TUBE FLATTENING DUE TO
- BENDING IS 6% BASED ON O.D.

  11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

  12) INSTALL D2894-1 CENTER SUPPORT USING A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO
- 13) INSTALL MS21920-25 CLAMPS WITH D3595-063-430 RUBBER CUSHIONS TO SECURE D2894-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE CROSSTUBE
- NOTE: MS21920-24 CLAMPS CAN BE USED TO ACCOMMODATE VARYING DIAMETERS. ENSURE THERE IS A MINIMUM OF 1.5 THREADS IN SAFETY ON THE NUTS.
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) INSTALL D2856-400-773 ABRASION STRIP WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF CROSSTUBE, PER QSI 035.
- 16) INSTALL D3190-1 CHAFING SHIELDS SO THAT OVERLAP IS ON BOTTOM SIDE OF CROSSTUBE OPPOSITE D2894-1 SUPPORT.
- 17) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY RETURN'S. **ENGINEPRING** UNCONTROLLED ( 1911) SUBJECT TO AMENOMER WORK 183 MLJ NO. 84103 MLJ 12/05/31

**DEO ATTACHED** 

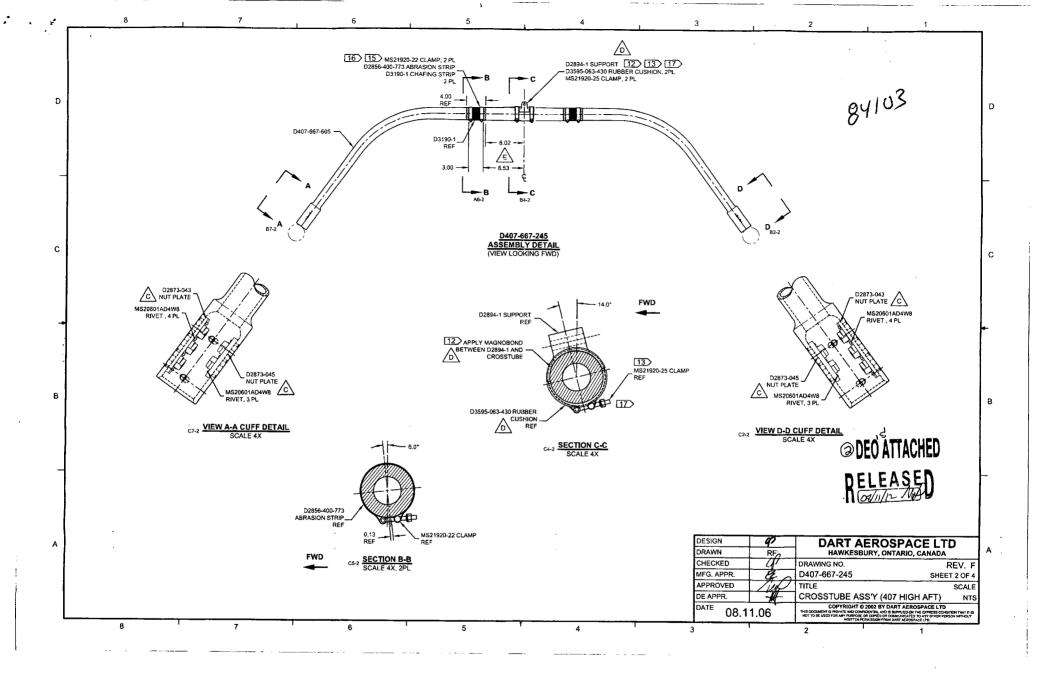
| F          | RELOC                             | ATED FLAG # 6  | O NEW STANDARDS (ZN 88-1);<br>5 (ZN 48-3) PER NCR 210;<br>D TOLERANCES (ZN C6-3, C4-3 &   | RF  | 08.11.06    |
|------------|-----------------------------------|--|---|-----|-------------|
| E          | REORI<br>TO CU<br>REASO<br>ELIMIN | GANIZED VIEV<br>RRENT STANI<br>DNS: CLAMPS<br>IATE INTERFE | E 8.40 AND 8.90 (ZN DS-2);<br>WS AND REFORMATED DRAWING<br>DARDS.<br>MOVED 0.375 TOWARD CL TO<br>ERENCE WITH AIRCRAFT MOUNTS.<br>D8-21 AND ECN#1225 | МВ  | 08.07.24    |
| D          | ORIEN                             | TATION OF C  | M SKID HOLES, ROTATE<br>LAMPS SECTION F-F, REMOVE<br>RIP, ADD MAGNOBOND 6398, ADD   | РН  | 07.02.07    |
| С          |                                   |  | JT PLATES FOR<br>TH BHT/AA SKIDTUBES  | PH  | 05.07.26    |
| В          | ADD C                             | HAFING SHIE  | LD  | CP  | 03.05.21    |
| _ A        | NEW IS                            | SSUE   |   | CP  | 02.05.13    |
| REV.       |                                   |  | DESCRIPTION   | BY  | DATE        |
| DESIGN     |                                   | P  | DART AEROSPA  | ACE | LTD         |
| DRAWN      |                                   | RF <sub>2</sub>  | HAWKESBURY, ONTARI  |     |             |
| CHECK      | D                                 | $\mathcal{A}^{r}$  | DRAWING NO.   |     | REV. F      |
| MFG: APPR. |                                   | B  | D407-667-245  |     | HEET 1 OF 4 |
| APPRO      | /ED                               | 1110   | TITLE   |     | SCALE       |

DATE 08.11.06 CROSSTUBE ASS'Y (407 HIGH AFT) COPYRIGHT © 2002 BY DART AEROSPACE LTD

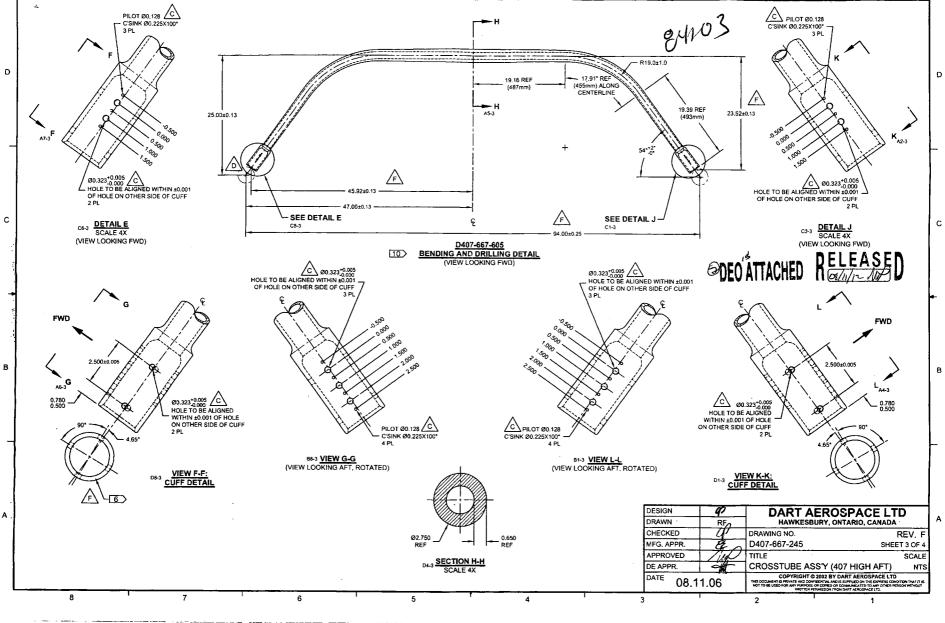
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DE APPR.

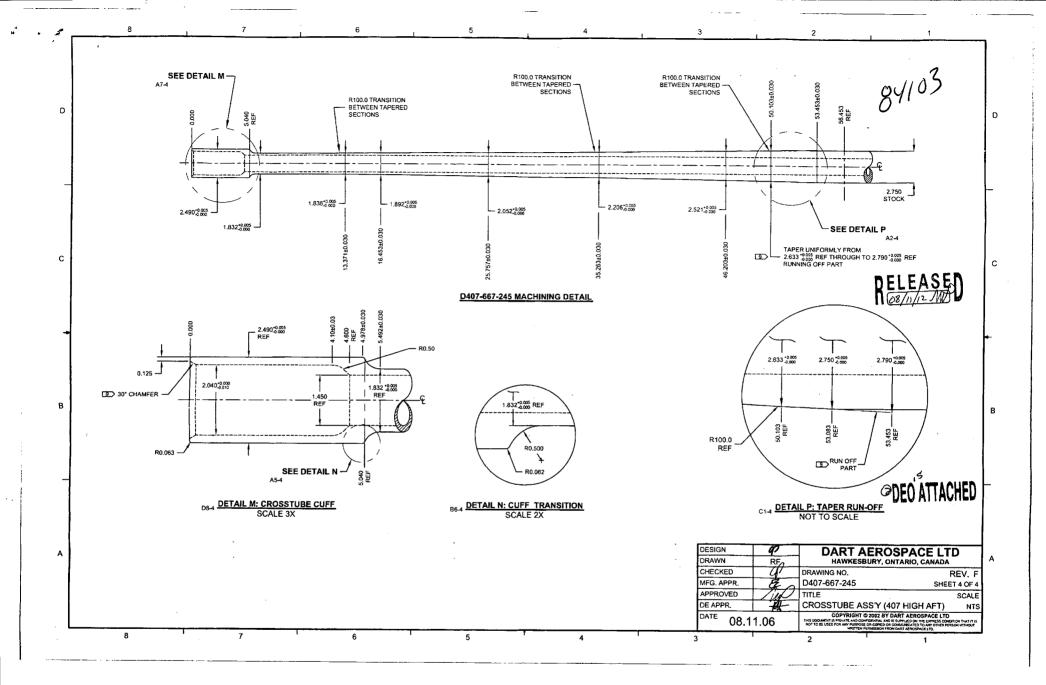
| Dart Ae                | rospace l   | Ltd  |              |                           |             |                     |     |                               | <b>X</b> .  |
|------------------------|-------------|--|--------------|---------------------------|-------------|---------------------|-----|-------------------------------|---|
| W/O:                   |             |  | WO           | RK ORDER CHANGE           | ES          |                     |     |                               | <u> </u>  |
| DATE                   | Resolution: | PRO  | OCEDURE CHAN | NGE                       | Ву          | Date                | Qty | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector                                      |
| W/O: DATE S Part No: _ |             |  |              |                           |             |                     |     |                               |   |
|                        |             |  |              |                           |             |                     |     |                               |   |
| Part No                | ):          | WORK ORDER CHANGES  PROCEDURE CHANGE  By Date Qty Chief Eng Prod Mgr  PAR #: Fault Category: NCR: Yes No DQA: Date:  Resolution: QA: N/C Closed: Date:  WORK ORDER NON-CONFORMANCE (NCR)  PAR #: Corrective Action Section B  Verification Approve | Date: _      |                           |             |                     |     |                               |   |
|                        | Res         | solution:  | Disposition  | ) <b>:</b>                | QA: N/C Clo | sed:                |     | Date: _                       |   |
| NCR:                   |             |  | WORK ORDE    | R NON-CONFORMA            | NCE (NCR    | )                   |     |                               |   |
| DATE                   | OTED        | Description of NC  |              | Corrective Action Section |             | Vorification Annual |     | Approval                      | Approval QC inspector  Proval QC inspector  Approval Approval |
|                        | SIEP        |  |              |                           |             |                     |     | Approval Chief Eng            | QC Inspector  |
|                        |             |  |              |                           |             |                     |     |                               |   |
|                        |             |  |              | •                         |             |                     |     |                               |   |
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| ····                   |             |  |              |                           |             |                     |     |                               |   |
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| Dart Ae                      | rospace | e Ltd             |             |   |           |       |        |                               | *c                       |
|------------------------------|---------|-------------------|-------------|---|-----------|-------|--------|-------------------------------|--------------------------|
| W/O:                         |         |                   | WC          | PRK ORDER CHANG                         | GES       |       |        |                               |                          |
| DATE                         | STEP    | PROCEDURE CHANGE  |             |   | Ву        | Date  | Qty    | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |
| Part No: _                   |         |                   |             |   |           |       |        |                               | :                        |
|                              |         |                   |             |   |           |       |        |                               |                          |
|                              |         |                   |             |   |           |       |        |                               |                          |
| Part No                      | :       | PAR #:            | Fault Cate  | gory:                                   | NCR: Yes  | No DQ | A:     | _ Date: _                     |                          |
|                              | R       | esolution:        | Disposition | n: <u>`</u>                             | QA: N/C C | osed: |        | Date: _                       |                          |
| NCR:                         |         |                   | WORK ORDI   | ER NON-CONFORM                          | ANCE (NCF | R)    |        |                               | :                        |
| DATE                         | STEP    | Description of NC | Initial     | Corrective Action Secretion Description | ction B   |       | cation | Approval                      | Approval                 |
| W/O: DATE ST  Part No:  NCR: |         | Section A         | Chief Eng   | Chief Eng                               | Date      | Sect  | ion C  | Chief Eng                     | QC Inspector             |
|                              |         |                   |             |   |           |       |        |                               |                          |
|                              |         |                   |             |   |           |       | :      |                               |                          |
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| Dart Ae     | rospace        | Ltd               | •                            |                              |        | ÷              |          |                |                                     | ž.                                    |
|-------------|----------------|-------------------|------------------------------|------------------------------|--------|----------------|----------|----------------|-------------------------------------|---------------------------------------|
| W/O:        |                |                   | W                            | ORK ORDER CHANG              | GES    | <del></del>    |          |                |                                     | · · · · · · · · · · · · · · · · · · · |
| DATE        | STEP           | PRO               | OCEDURE CHA                  | NGE                          |        | Ву             | Date Qty |                | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector              |
|             |                |                   | ·<br>:                       |                              |        |                |          |                |                                     |                                       |
| <del></del> |                |                   |                              | ·                            |        |                |          |                |                                     |                                       |
|             |                |                   |                              |                              |        |                |          |                |                                     |                                       |
| Part No     | art No: PAR #: |                   |                              |                              |        |                |          |                |                                     |                                       |
|             |                |                   | Disposition: QA: N/C Closed: |                              |        |                | Date:    |                |                                     |                                       |
| NCR:        |                |                   | WORK ORD                     | ER NON-CONFORM               | ANCE   | (NCR)          |          |                |                                     |                                       |
| DATE        | STEP           | Description of NC | <del> </del>                 |                              | tion B |                | Verifi   | cation         | Approval                            | Annessal                              |
| DAIE        | SIEF           | Section A         | Initial Chief Eng            | Action Description Chief Eng |        | Sign &<br>Date |          | ion C          | Chief Eng                           | Approval<br>QC Inspector              |
|             |                |                   |                              |                              | ٠,     |                |          |                |                                     |                                       |
|             |                |                   |                              |                              |        |                |          |                |                                     |                                       |
|             |                |                   |                              |                              |        |                |          |                |                                     |                                       |
|             |                |                   |                              |                              |        |                |          | - · · <u>-</u> |                                     |                                       |
| • •         |                |                   |                              |                              |        |                |          |                |                                     |                                       |
|             |                |                   |                              |                              |        |                |          |                |                                     |                                       |



|         |      |                   |                      |                              |                |         |            |                                     | - <b>^</b> , •           |
|---------|------|-------------------|----------------------|------------------------------|----------------|---------|------------|-------------------------------------|--------------------------|
| W/O:    |      |                   | W                    | ORK ORDER CHANGE             | S              |         |            |                                     |                          |
| DATE    | STEP | PRO               | OCEDURE CH           | ANGE                         | Ву             | Date    | Qty        | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|         |      |                   |                      |                              |                |         |            |                                     |                          |
|         |      |                   |                      |                              |                |         |            |                                     |                          |
|         |      |                   |                      |                              |                |         |            |                                     |                          |
|         | 54 m |                   |                      |                              |                |         |            |                                     |                          |
| Part No | •    | PAR #:            | Fault Cat            | egory:                       | NCR: Yes       | No DQA  | <b>\</b> : | Date:                               | -4                       |
|         | R    | esolution:        | Dispositi            | on: <u>`</u>                 | QA: N/C Cld    | sed:    |            | Date: _                             |                          |
| NCR:    |      | \                 | WORK ORE             | DER NON-CONFORMA             | NCE (NCR       | )       |            | ., .                                |                          |
| DATE    | STEP | Description of NC |                      | Corrective Action Section    |                | Verific | ation      | Approval                            | Approval                 |
|         |      | Section A         | Initial<br>Chief Eng | Action Description Chief Eng | Sign &<br>Date | Section | on C       | Chief Eng                           | QC Inspector             |
|         |      |                   |                      |                              |                |         | i          |                                     |                          |
|         |      |                   |                      |                              |                |         |            |                                     |                          |
|         |      |                   |                      |                              |                |         |            |                                     |                          |
|         |      |                   |                      |                              |                |         |            |                                     |                          |
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|         |      |                   |                      |                              |                |         |            |                                     |                          |
|         | 1    | 1                 |                      |                              | 1              | 1       |            |                                     | i :                      |

| DRAWING NO.<br>D407-667-245 | TITLE<br>CROSSTUBE / | ASSY (407 HIGH | REV. F<br>AFT) | DART AEROSPACE LTD<br>ENGINEERING ORDER | D.E.O. NO.<br>D407-667-245-F-1 | SHEET NO.     | SCALE |
|-----------------------------|----------------------|----------------|----------------|---|--------------------------------|---------------|-------|
| DRAWN                       | CH                   | HECKED 4       | 0              | MEG APPR                                |                                | DE APPR       | NTS   |
| DATE 11.04                  | .08 DA               | ATE 11.04.     | 12             | DATE 11.04.12                           | DATE 11.04.12                  | DATE 11-04-12 |       |

**PURPOSE:** 

REMOVED ABRASION STRIP IN FAVOR OF A THIN LAYER OF PROSEAL 890.

**CHANGE:** 

PARTS LIST IS AMENDED AS FOLLOWS:

IS:

| Item | Qty<br>-245 | Part Number   | Description    |
|------|-------------|---------------|----------------|
| 3    | 0           | D2856-400-773 | ABRASION STRIP |

### WAS:

|   |   | <del></del>   |                |
|---|---|---------------|----------------|
| 3 | 2 | D2856-400-773 | ABRASION STRIP |
|   |   |               |                |

### NOTES 2 AND 15, SHEET 1 ARE AMENDED AS FOLLOWS:

IS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND PAINT OUTSIDE PER DART QSI 005 4.2

REMOVE MASKING AND APPLY CLEAR COAT

15) APPLY A THIN COAT OF PROSEAL 890 ON INSIDE CONCAVE SURFACE OF D3190-1 CHAFING SHIELDS AND LET CURE PER MANUFACTURER'S INSTRUCTIONS. INSTALL PROSEALED D3190-1 CHAFING SHIELDS ONTO CROSSTUBE BY APPLYING A THIN COAT OF PROSEAL 890 ONTO CROSSTUBE. BE SURE TO ELIMINATE ANY AIR GAPS.

### WAS:

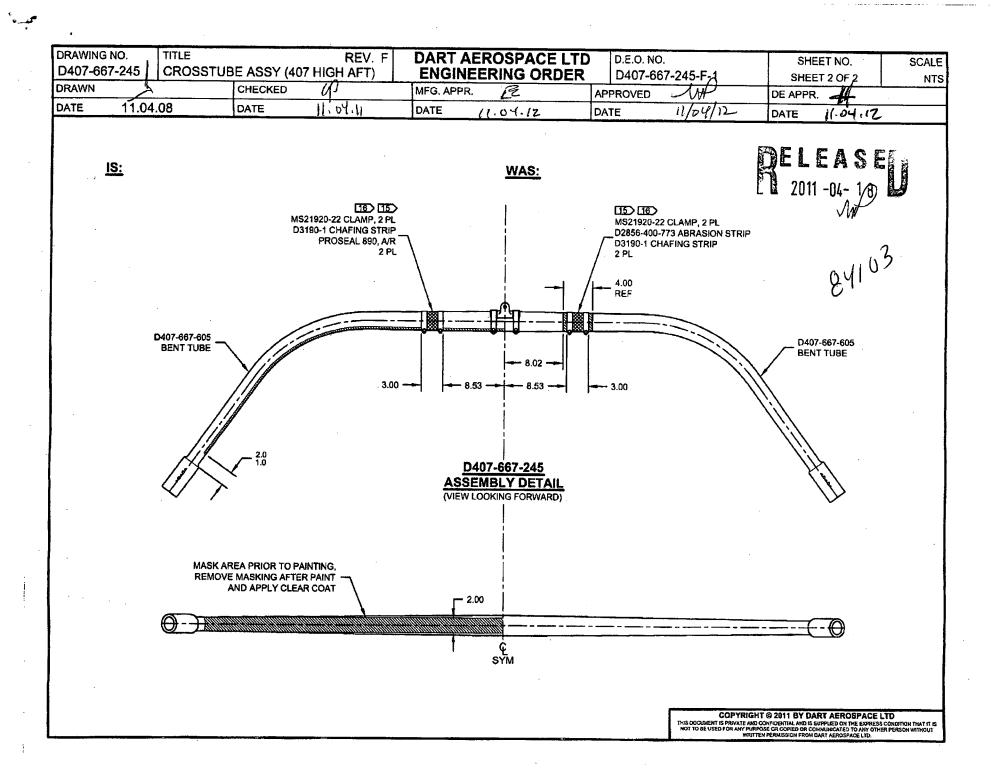
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
PAINT OUTSIDE PER DART QSI 005 4.2

15) INSTALL D2856-400-773 ABRASION STRIP WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035

84/0 DELEASE 2011 -04- 18

| Dart Aerospa | ce Ltd |  |
|--------------|--------|--|
|--------------|--------|--|

|         | oopaoc |                   |                      |                              |                |           |           | *                |
|---------|--------|-------------------|----------------------|------------------------------|----------------|-----------|-----------|------------------|
| W/O:    |        |                   | WC                   | RK ORDER CHANGE              | S              |           |           |                  |
| DATE    | STEP   | PRO               | OCEDURE CHAI         | NGE                          | Ву             | Date (    | Qty Appro | Eng / Approvar   |
|         |        |                   |                      |                              |                |           |           |                  |
| :       |        |                   |                      |                              |                |           |           |                  |
|         |        |                   |                      |                              |                |           |           |                  |
|         |        |                   |                      |                              |                |           |           |                  |
| Part No |        | PAR #:            |                      |                              |                |           |           |                  |
|         | R      | esolution:        | Disposition          | ): <u>`</u>                  | QA: N/C Clo    | sed:      | Da        | te:              |
| NCR:    |        | •                 | WORK ORDE            | ER NON-CONFORMAI             | VCE (NCR)      |           |           |                  |
| DATE    | STEP   | Description of NC |                      | Corrective Action Section    |                | Verificat | ion Appr  | oval Approval    |
| DATE    | SIEF   | Section A         | Initial<br>Chief Eng | Action Description Chief Eng | Sign &<br>Date | Section   |           | Eng QC Inspector |
|         |        |                   |                      |                              |                |           |           |                  |
|         |        |                   |                      |                              |                |           |           |                  |
|         | 1      |                   |                      |                              |                |           |           |                  |
|         |        |                   |                      |                              |                |           |           |                  |
|         |        |                   |                      |                              |                |           |           |                  |
|         |        |                   |                      |                              |                |           |           |                  |
|         |        |                   |                      |                              | į              |           |           |                  |



| Dart Ae     | rospace  | e Ltd             |                      |                              |                |           |                               | March 1                  |  |
|-------------|----------|-------------------|----------------------|------------------------------|----------------|-----------|-------------------------------|--------------------------|--|
| W/O:        |          |                   | WORK ORDER CHANGES   |                              |                |           |                               |                          |  |
| DATE        | STEP     | PRO               | PROCEDURE CHANGE     |                              |                |           | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |  |
|             |          |                   |                      |                              |                |           |                               |                          |  |
|             |          |                   |                      |                              |                |           |                               |                          |  |
|             |          |                   |                      |                              |                |           |                               |                          |  |
|             |          |                   |                      |                              |                |           |                               |                          |  |
| Part No     | :        | PAR #:            | Fault Cate           | gory:                        | NCR: Yes       | No DQA:   | Date: _                       |                          |  |
|             | R        | esolution:        | Disposition          | n: <u>'</u>                  | _ QA: N/C Cld  | sed:      | Date: _                       |                          |  |
| NCR:        |          |                   | WORK ORDI            | ER NON-CONFORMA              | NCE (NCR       | )         |                               |                          |  |
| DATE        | STEP     | Description of NC |                      | Corrective Action Secti      |                | Verificat | ion Approval                  | Approval                 |  |
|             | SIEP     | Section A         | Initial<br>Chief Eng | Action Description Chief Eng | Sign &<br>Date | Section   |                               | QC Inspector             |  |
|             |          |                   |                      |                              |                |           |                               |                          |  |
|             |          |                   |                      |                              |                |           |                               |                          |  |
| <del></del> | <u> </u> |                   |                      |                              |                |           |                               |                          |  |
|             |          |                   |                      |                              |                |           |                               |                          |  |
|             |          |                   |                      |                              |                |           |                               |                          |  |
|             |          |                   |                      |                              |                |           |                               |                          |  |

| DRAWING NO.  | TITLE    |            | REV. F       | DART AE    | ROSPACE LTD | D.E.O. NO.       | SHEET NO.     | SCALE |
|--------------|----------|------------|--------------|------------|-------------|------------------|---------------|-------|
| D407-667-245 | CROSSTUB | E ASS'Y (4 | 07 HIGH AFT) | ENGINE     | ERING ORDER | D407-667-245-F-2 | SHEET 1 OF    | NTS   |
| DRAWN 9      | 2        | CHECKED    | ASS          | MFG. APPR. | G           | APPROVED WP      | DE APPR.      |       |
| DATE 11.09   | 9.07     | DATE       | 11.09.19     | DATE       | 11.09.19    | DATE 11.09.19    | DATE 11.09.19 |       |

**PURPOSE:** 

REPLACE MAGNOBOND WITH 3M DP460 SCOTCH-WELD EPOXY ADHESIVE

**CHANGE:** 

IS:

| Item | Qty<br>-245 | Part Number       | Description                    |
|------|-------------|-------------------|--------------------------------|
| 12   | A/R         | SCOTCH-WELD DP460 | EPOXY ADHESIVE, 3M SCOTCH-WELD |

### WAS:

| 12 | A/R | MAGNOBOND 6398 | ROCKWELL SPECIFICATION RBO-120-023        |
|----|-----|----------------|---|
|    | ·   |                | ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, |
|    |     |                | TYPE II, CLASS 2 ADHESIVE)                |

NOTE 12 & 17, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.04" TO 0.07" THICK LAYER OF SCOTCH-WELD DP460 PER QSI 015. LET CURE FOR 24 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER ADHESIVE HAS CURED FOR 24 HOURS.

WAS:

- 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

84103



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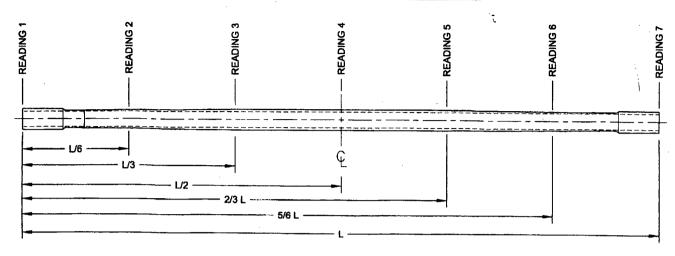
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

| W/O: |      |                  | WORK ORDER CHANGES                    |   |  |  |  |    |      |     |                               |                          |
|------|------|------------------|---------------------------------------|---|--|--|--|----|------|-----|-------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE |                                       |   |  |  |  | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |
|      |      |                  |                                       |   |  |  |  |    |      |     |                               |                          |
|      |      |                  | · · · · · · · · · · · · · · · · · · · | : |  |  |  |    | f    |     |                               |                          |

| Resolution: |      |                                | Disposition: QA                  |  | A: N/C Closed: |                           | Date:                 |                          |
|-------------|------|--------------------------------|----------------------------------|--|----------------|---------------------------|-----------------------|--------------------------|
| NCR:        |      | W                              | WORK ORDER NON-CONFORMANCE (NCR) |  |                |                           |                       | <u>.</u>                 |
| DATE        | STEP | Description of NC<br>Section A | Initial                          | Corrective Action Section B Action Description | Sign &         | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |
|             |      |                                | Chief Eng                        | Chief Eng                                      | Date           |                           | ¥.                    |                          |
|             |      |                                | =                                |  |                |                           |                       |                          |
|             |      | •                              |                                  |  |                |                           |                       |                          |
|             |      |                                |                                  |  |                |                           |                       |                          |

| DART AEROSPACE LTD                  | Work Order:  | 6/103        |
|-------------------------------------|--------------|--------------|
| Description: Crosstube Assembly     | Part Number: | D407-667-245 |
| Inspection Dwg: D407-667-245 Rev: F |              | Page 2 of 2  |

# WALL THICKNESS MEASUREMENT



|                    | WALL THICKNESS MEASUREMENT (IN) |        |       |               | Deviation       |           |
|--------------------|---------------------------------|--------|-------|---------------|-----------------|-----------|
| Location           | w1                              | w2     | w3    | w4            | Δw<br>(max-min) | TOLERANCE |
| READING 1<br>L= 0" | .29/                            | 236    | 235   | - 28 <b>%</b> | .048            |           |
| READING 2<br>L=    | . 259                           | .405   | .237  | . 267.        | ,031            |           |
| READING 3<br>L=    | .422.                           | . 405  | ,414  | .434.         | .029            |           |
| READING 4<br>L=    | ,659                            | .4465  | .674  | ,673          | .015            | 0.075"    |
| READING 5<br>L=    | .393                            | ,249.  | ,447. | , 427.        | .054            |           |
| READING 6<br>L=    | . 224                           | 23,249 | .273  | . 255         | ,049            |           |
| READING 7<br>L=    | ,232.                           | ,231   | . 233 | . 231         | .002            |           |

## **Calibration Result**

Actual Block Thickness: 100 - 560

Sitescan 250 Measured Thickness: 100 -500

| Measured by: KC | Audited by:  | Preliminary Approval: |
|-----------------|--------------|-----------------------|
| Date: 12-7-04   | Date: 12-7-4 | Date:                 |

| Rev | Date     | Change                                 | Revised by | Approved    |
|-----|----------|--|------------|-------------|
| Α   | 04.04.21 | New Issue (P/O D407-667-205)           | KJ/RF      |             |
| В   | 06:03.09 | Dwg Rev updated                        | KJ/JLM     |             |
| С   | 06.03.30 | Tolerance revised for 4 \$78 dimension | KJ/JLM     | <del></del> |
| D   | 07.02.19 | Dwg Rev updated                        | KJ/JLM     |             |
| ш   | 09.05.20 | Dwg Rev updated                        | KJ .       | <b>1</b>    |
| F   | 12.06.04 | Wall thickness form added              | KJ H       |             |